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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,073	04/20/2001	Todd C. Sacktor	13492	2721
T590 06/26/2008 Leopold Presser, Esq. SCULLY, SCOTT, MURPHY & PRESSER			EXAMINER	
			PAK, MICHAEL D	
400 Garden City Plaza Garden City, NY 11530			ART UNIT	PAPER NUMBER
•			1646	
			MAIL DATE	DELIVERY MODE
			06/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	09/839,073	SACKTOR, TODD C.	
Office Action Summary	Examiner	Art Unit	
	Michael Pak	1646	
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL. - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. - If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ation. by period will apply and will expire SIX (6) MO by statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ 3) ☐ Since this application is in condition for a closed in accordance with the practice upon the condition of the condition of the closed in accordance.	☐ This action is non-final. allowance except for formal mat		
Disposition of Claims			
4) Claim(s) 11,13 and 15 is/are pending in 4a) Of the above claim(s) is/are w 5) Claim(s) is/are allowed. 6) Claim(s) 11, 13, 15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction Application Papers	rithdrawn from consideration.		
	ra mina n		
9) The specification is objected to by the Ex 10) The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action fo	uments have been received. uments have been received in a ne priority documents have been Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Response to Amendment

- 1. Claims 11, 13, and 15 are examined below. Claims 1-10, 12 and 14 have been cancelled.
- 2. Applicant's arguments filed March 20, 2008, have been fully considered but they are not found persuasive.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 11 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Ghosh et al. (US 6,268,398) with evidence by Lang et al. (US 2005/0064501).

Ghosh et al. teach the method of administering chelerythrine as kinase inhibitors for therapy of many diseases including Alzheimer's disease, diabetes mellitus, neuropathy, epilepsy, stroke and traumatic injury to the brain (columns 2, 4, 6, 17-20, and 22)

The patients with the above listed diseases would have the pain syndrome as well associated with the diseases. The administration of Chlerythrine inherently has the amnesiac effect. Lang et al. teach that the chlerythrine suppresses the activation of the Na+ channel (page 1, paragraph 0023, 0052-0057). Lang et al. teach treatment of epileptic seizure with kinase inhibitors (page 2, paragraph 0028). Lang et al. teach diagnosing of epilepsy, hypertension, fibrosing pancreatitis, radiation fibrosis, scleroderma, cystic fibrosis, chronic bronchitis using tissues of brain, Alzheimer's disease, cirrhosis of the liver, Crohn's disease, fibrosing pancreatitis and pulmonary fibrosis, arteriosclerosis, diabetic nephropathy.

Applicants argue that Ghosh et al. is directed to compositions and methods for treatment of certain mitochondrial-associated diseases and Ghosh et al. does not disclose a method of causing amnesia. However, Ghosh et al. teach a method of treatment of epilepsy which is claimed. Furthermore, as discussed above the claims

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are drawn to a method of decreasing synaptic transmission in the alternative which is taught by Ghosh et al. as suppression of activation of Na+ channel by Chlerythrine. Furthermore, Chlerythrine inherently has the amnesiac effect when administered to treat diseases such as epileptic seizure. Whether Ghosh et al. describes the disease as mitochondrial-associated is not as important as the fact that Ghosh et al. administers Chlerythrine into epileptic patients which inherently results in the preambled stated effect. It should be noted that the method steps only require the administration of the PKM ζ inhibitor. Furthermore, Chlerythrine will inherently inhibit PKM ζ .

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 11, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of Thiam et al.(FEBS Letter, 1999) with evidence by Lang et al. (US 2005/0064501).

The teachings of Ghosh et al. with evidence of Lang et al. has been set forth above. Ghosh et al. does not teach the myristoylation pseudosubstrate peptide.

Thiam et al teach the method of adminstering palmitoylated modified PCK- ζ pseudosubstrate lipopeptides on HL60 human cells (page 286 and figures 1-3). The claims method step requires administration of a therapeutically effective amount which is met by concentration of 10 uM (page 287-288). The palmitoylated peptide is a subgenus of myristoylation peptide meeting the claim limitation of claim 13.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Ghosh et al. by substituting the myristolated pseudosubstrate peptide of Thiam et al. One of ordinary skill in the art would have been motivated to modify the method of Ghosh et al. because Ghosh et al. explicitly consider chelerythrine, Staurosporine or other kinase inhibitors and pseudosubstrate peptide of Thiam et al. is a kinase inhibitor. Furthermore, one of ordinary skill in the art would have been motivated because Thiam et al. is an analogous art with Lang et al. because both use kinase inhibitors.

Applicants argue that Thiam et al. do not teach a method of causing amnesia or decreasing synaptic transmission by administering a therapeutically effective amount of of a PKM-ς inhibitor. However, the combination of Ghosh et al. in view of Thiam et al.

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teach the administration of the pseudosubstrate peptide which would inherently decrease the synaptic transmission. One of ordinary skill in the art would have been motivated to modify the method of Ghosh et al. because Ghosh et al. explicitly consider chelerythrine, Staurosporine or other kinase inhibitors and pseudosubstrate peptide of Thiam et al. is a kinase inhibitor. Furthermore, one of ordinary skill in the art would have been motivated because Thiam et al. is an analogous art with Lang et al. because both use kinase inhibitors.

- 5. No claims are allowed.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Pak whose telephone number is 571-272-0879.

The examiner can normally be reached on 8:00 - 2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Nickol can be reached on 571-272-0835. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Michael Pak/

Primary Examiner, Art Unit 1646

14 June 2008